File 34:SciSearch(R) Cited Ref Sci 1990-2002/Nov W3
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Set	Items	Description

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Ref	Items	Index-term
E1	39	AU=BRUG E
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E3	22	*AU=BRUG J
E4	22	AU=BRUG JA
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DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

06930238 Genuine Article#: 104UD Number of References: 13
Title: Contribution of the magnetic field induced by the current passing through a spin-valve element
Author(s): Portier X (REPRINT) ; PetfordLong AK; Anthony TC; **Brug JA**
Corporate Source: UNIV OXFORD,DEPT MAT, PARKS RD/OXFORD OX1 3PH//ENGLAND/ (REPRINT); HEWLETT PACKARD LABS,/PALO ALTO//CA/94304
Journal: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 1998, V187, N2 (AUG) , P145-153
ISSN: 0304-8853 Publication date: 19980800
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS
Language: English Document Type: ARTICLE
Geographic Location: ENGLAND; USA
Subfile: CC PHYS--Current Contents, Physical, Chemical & Earth Sciences
Journal Subject Category: MATERIALS SCIENCE; PHYSICS, CONDENSED MATTER
Abstract: In situ experiments in a Lorentz microscope have been performed on active spin-valve elements, and a correlation between magnetoresistance and the magnetic domain structure is shown. The presence of a magnetic field induced by the applied current is clearly demonstrated. A simple model is presented, which is in good agreement with the experimental data. In addition, the effect of stray-held coupling between the ferromagnetic layers, arising because of the free magnetic poles at the **edges** of the element, has been observed. (C) 1998 Elsevier Science B.V. All rights reserved.

Descriptors--Author Keywords: spin valves ; giant magnetoresistance ; Lorentz microscopy

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DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

05210396 Genuine Article#: VH392 Number of References: 39
Title: MAGNETIC RECORDING HEAD MATERIALS
Author(s): **BRUG JA** ; ANTHONY TC; NICKEL JH
Journal: MRS BULLETIN, 1996, V21, N9 (SEP), P23-27
ISSN: 0883-7694
Language: ENGLISH Document Type: ARTICLE
Subfile: SciSearch; CC PHYS--Current Contents, Physical, Chemical & Earth Sciences; CC ENGI--Current Contents, Engineering, Technology & Applied Sciences
Journal Subject Category: MATERIALS SCIENCE; PHYSICS, APPLIED
Identifiers--KeyWords Plus: SPIN-VALVE STRUCTURES; GIANT MAGNETORESISTANCE; FILMS; FE; MULTILAYERS; TEMPERATURE; TRANSPORT; SYSTEMS
Research Fronts: 94-1579 007 (GIANT MAGNETORESISTANCE; MAGNETIC MULTILAYERS; INTERLAYER EXCHANGE COUPLING)
94-6468 002 (MAGNETORESISTIVE HEADS; MAGNETIC RECORDING; SPIN-VALVE SENSORS)
94-1811 001 (MAGNETIC SUPERLATTICES; TB/FE MULTILAYERS; GIANT MAGNETORESISTANCE; MAGNETOSTATIC MODES; SPIN-WAVES IN A FERROMAGNETIC BILAYER SYSTEM)
94-5751 001 (FINE MAGNETIC PARTICLES; METALLIC IRON NANOPARTICLES; STRUCTURAL-PROPERTIES OF CO/COO BILAYERS)
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XIAO JQ, 1992, V68, P3749, PHYS REV LETT

3/9/2

03303255 Genuine Article#: NU012 Number of References: 13

Title: DUAL STRIPE MAGNETORESISTIVE HEADS FOR HIGH-DENSITY RECORDING

Author(s): ANTHONY TC; NABERHUIS SL; **BRUG JA** ; BHATTACHARYYA MK; TRAN LT; HESTERMAN VW; LOPATIN GG
Corporate Source: HEWLETT PACKARD CORP,1501 PAGE MILL RD/PALO ALTO//CA/94304

Journal: IEEE TRANSACTIONS ON MAGNETICS, 1994, V30, N2 (MAR), P303-308
ISSN: 0018-9464
Language: ENGLISH Document Type: ARTICLE
Geographic Location: USA
Subfile: SciSearch; CC PHYS--Current Contents, Physical, Chemical & Earth Sciences; CC ENGI--Current Contents, Engineering, Technology & Applied Sciences
Journal Subject Category: ENGINEERING, ELECTRICAL & ELECTRONIC; PHYSICS, APPLIED

Abstract: The design and recording performance of dual stripe magnetoresistive read/inductive write heads with read widths of 4 mum and write widths of 4.5 mum are described. A linear density of 75 kfci (D50) was measured in heads with shield-to-shield spacing of 420 nm and 70 nm of dielectric separating the two magnetoresistive stripes. Large signal amplitude, linear cross-track profile, and good second harmonic suppression are observed in accordance with theoretical expectations. Readback waveforms contain little baseline shift and the ratio of positive to negative peak amplitudes is very close to unity. Stable signals are seen for heads with and without exchange **stabilization** . Conductor topography in the read head is replicated in the write head and can adversely affect cross-track behavior.
Non-planarity of the write head must be considered in the design of shared pole magnetoresistive heads.

Research Fronts: 92-0191 001 (NONLINEAR FADING MOBILE SATELLITE CHANNELS; CODE PERFORMANCE IN DIGITAL MAGNETIC RECORDING; CODING USING PRECODING; TRELLIS SHAPING; MR INDUCTIVE HEAD)

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YEH N, 1982, V18, P1155, IEEE T MAGN
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E11        1  AU=ANTHONY TP
E12       63  AU=ANTHONY TR

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DIALOG(R)File  34:SciSearch(R) Cited Ref Sci
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06930238   Genuine Article#: 104UD   Number of References: 13
Title: Contribution of the magnetic field induced by the current passing
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Author(s): Portier X (REPRINT) ; PetfordLong AK; Anthony TC ; Brug JA
Corporate Source: UNIV OXFORD,DEPT MAT, PARKS RD/OXFORD OX1 3PH//ENGLAND/
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Journal: JOURNAL OF MAGNETISM AND MAGNETIC MATERIALS, 1998, V187, N2 (AUG)
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ISSN: 0304-8853   Publication date: 19980800
Publisher: ELSEVIER SCIENCE BV, PO BOX 211, 1000 AE AMSTERDAM, NETHERLANDS
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Geographic Location: ENGLAND; USA
Subfile: CC PHYS--Current Contents, Physical, Chemical & Earth Sciences
Journal Subject Category: MATERIALS SCIENCE; PHYSICS, CONDENSED MATTER
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    presence of a magnetic field induced by the applied current is clearly
    demonstrated. A simple model is presented, which is in good agreement
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    coupling between the ferromagnetic layers, arising because of the free
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    1998 Elsevier Science B.V. All rights reserved.
Descriptors--Author Keywords: spin valves ; giant magnetoresistance ;
    Lorentz microscopy
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5/9/2

06262571 Genuine Article#: YF147 Number of References: 24

Title: Nonlinear predictive control of spacecraft

Author(s): Crassidis JL (REPRINT) ; Markley FL; **Anthony TC** ; Andrews SF
Corporate Source: CATHOLIC UNIV AMER,DEPT MECH ENGN/WASHINGTON//DC/20064 (REPRINT); NASA,GODDARD SPACE FLIGHT CTR, GUIDANCE NAVIGAT & CONTROL BRANCH/GREENBELT//MD/20771

Journal: JOURNAL OF GUIDANCE CONTROL AND DYNAMICS, 1997, V20, N6 (NOV-DEC), P1096-1103
ISSN: 0731-5090 Publication date: 19971100
Publisher: AMER INST AERONAUT ASTRONAUT, 1801 ALEXANDER BELL DRIVE, STE 500, RESTON, VA 22091
Language: English Document Type: ARTICLE
Geographic Location: USA
Subfile: CC ENGI--Current Contents, Engineering, Computing & Technology
Journal Subject Category: INSTRUMENTS & INSTRUMENTATION; AEROSPACE ENGINEERING & TECHNOLOGY

Abstract: A new approach for the control of a spacecraft with large-angle maneuvers is presented. This new approach is based on a nonlinear predictive control scheme that determines the required torque input so that the predicted responses match the desired trajectories. This is accomplished by minimizing the norm-squared local errors between the predicted and desired quantities. Formulations that use either attitude and rate tracking or attitude tracking alone are presented. The robustness of the new controller with respect to large system uncertainties is also demonstrated. Finally, simulation results that use the new control strategy to **stabilize** the motion of the Microwave Anisotropy Probe spacecraft are shown.

Identifiers--KeyWord Plus(R): LARGE-ANGLE MANEUVERS; ATTITUDE MANEUVERS; RIGID SPACECRAFT; FEEDBACK; SYSTEMS

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DIALOG(R)File 34:SciSearch(R) Cited Ref Sci

05210396 Genuine Article#: VH392 Number of References: 39
Title: MAGNETIC RECORDING HEAD MATERIALS
Author(s): BRUG JA; **ANTHONY TC** ; NICKEL JH
Journal: MRS BULLETIN, 1996, V21, N9 (SEP), P23-27
ISSN: 0883-7694
Language: ENGLISH Document Type: ARTICLE
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Journal Subject Category: MATERIALS SCIENCE; PHYSICS, APPLIED
Identifiers--KeyWords Plus: SPIN-VALVE STRUCTURES; GIANT MAGNETORESISTANCE; FILMS; FE; MULTILAYERS; TEMPERATURE; TRANSPORT; SYSTEMS
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94-5751 001 (FINE MAGNETIC PARTICLES; METALLIC IRON NANOPARTICLES; STRUCTURAL-PROPERTIES OF CO/COO BILAYERS)
94-6789 001 (FETAN FILMS; TUNNELING **STABILIZED** MAGNETIC FORCE MICROSCOPE CHARACTERIZATION; LAMINATED FE-TA-N HEADS)
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03303255 Genuine Article#: NU012 Number of References: 13
Title: DUAL STRIPE MAGNETORESISTIVE HEADS FOR HIGH-DENSITY RECORDING
Author(s): **ANTHONY TC** ; NABERHUIS SL; BRUG JA; BHATTACHARYYA MK; TRAN LT; HESTERMAN VW; LOPATIN GG
Corporate Source: HEWLETT PACKARD CORP,1501 PAGE MILL RD/PALO ALTO//CA/94304
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